RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/651,584 B_

Source: _iFwJo_

Date Processed by STIC: _5/7/04_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: **TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
<u>http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm</u>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<u><http://www.uspto.gov/ebc/efs/downloads/documents.htm></u> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _10/651,584B_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 ____ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
____ Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
            prevent "wrapping."

2 ✓ Invalid Line Length The rules require that a line **not exceed 72 characters** in length. This includes white spaces.

3 ✓ Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
    Numbering   use **space characters, instead.**

4 ✓ Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5 ____ Variable Length Sequence(s) ____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
    "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 ____ Skipped Sequences Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
    (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
            (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
            (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
            This sequence is intentionally skipped

            Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence.
    (NEW RULES)   <210> sequence id number
            <400> sequence id number
            000

9 ____ Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
    (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
            In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ____ Invalid <213> Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or
    Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 ____ Use of <220> Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
            (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 ____ PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
    "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n/Xaa "n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

AMC – Biotechnology Systems Branch – 09/09/2003

IF

RAW SEQUENCE LISTING   DATE: 05/07/2004
PATENT APPLICATION: US/10/651,584B   TIME: 13:43:38

errors throughout

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05072004\J651584B.raw

IMPORTANT: see item 4 on Error Summary Sheet

```
 1 <110> APPLICANT: Lauermann, Vit
 3 <120> TITLE OF INVENTION: Targeted release
->  5 <130> FILE REFERENCE:
->  7 <140> CURRENT APPLICATION NUMBER: US/10/651,584B
 9 <141> CURRENT FILING DATE: 2003-08-30
11 <160> NUMBER OF SEQ ID NOS: 111
```

Does Not Comply
Corrected Diskette Needed

RORED SEQUENCES

(see item 2 on Error Summary Sheet)

```
15 <210> SEQ ID NO: 1
17 <211> LENGTH: 7
19 <212> TYPE: PRT
21 <213> ORGANISM: Unknown
23 <220> FEATURE:
25 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by
26        target cell
29 <400> SEQUENCE: 1
31 Ser Met Ser Ile Ala Arg Leu
-> 32 1           5
```

do not exceed 72 characters per line

misaligned amino acid numbers (see item 3 on Error Summary Sheet)

```
34 <210> SEQ ID NO: 2
36 <211> LENGTH: 13
38 <212> TYPE: PRT
40 <213> ORGANISM: Unknown
42 <220> FEATURE:
44 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by
45        target cell
49 <400> SEQUENCE: 2
51 Ser Lys Gly Ser Phe Ser Ile Gln Tyr Thr Tyr His Val
-> 52 1              5              10
```

same error

same

```
54 <210> SEQ ID NO: 3
56 <211> LENGTH: 13
58 <212> TYPE: PRT
60 <213> ORGANISM: Unknown
62 <220> FEATURE:
64 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by
65        target cell
69 <400> SEQUENCE: 3
71 His Leu Gly Gly Ser Gln Gln Leu Leu His Asn Lys Gln
-> 72 1              5              10
```

same

same

```
74 <210> SEQ ID NO: 4
76 <211> LENGTH: 14
78 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 05/07/2004
PATENT APPLICATION: US/10/651,584B   TIME: 13:43:38

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05072004\J651584B.raw

```
 80 <213> ORGANISM: Unknown                                           same
 82 <220> FEATURE:
 84 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by
 85        target cell
 89 <400> SEQUENCE: 4
 91 Ser Lys Gly Lys Gly Thr Ser Ser Gln Tyr  Ser Asn Thr Glu     same
->92 1                          5                        10
 95 <210> SEQ ID NO: 5
 97 <211> LENGTH: 8
 99 <212> TYPE: PRT
101 <213> ORGANISM: Unknown                          same
103 <220> FEATURE:
105 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

106        target cell
110 <400> SEQUENCE: 5
112 Asp Arg Val Tyr Ile His Pro Phe        same
->113 1                          5
117 <210> SEQ ID NO: 6
119 <211> LENGTH: 12
121 <212> TYPE: PRT
123 <213> ORGANISM: Unknown                  same
125 <220> FEATURE:
127 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

128        target cell
132 <400> SEQUENCE: 6
134 Val Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro
->135 1                          5             same            10
139 <210> SEQ ID NO: 7
141 <211> LENGTH: 7
143 <212> TYPE: PRT
145 <213> ORGANISM: Unknown                  same
147 <220> FEATURE:
149 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

150        target cell
154 <400> SEQUENCE: 7
156 Phe Phe Tyr Thr Pro Lys Ala
->157 1                          5     same
161 <210> SEQ ID NO: 8
163 <211> LENGTH: 9
165 <212> TYPE: PRT
167 <213> ORGANISM: Unknown                  same
169 <220> FEATURE:
171 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

172        target cell
176 <400> SEQUENCE: 8
178 Lys Arg Arg Pro Val Lys Val Tyr Pro        same
->179 1                          5
183 <210> SEQ ID NO: 9
185 <211> LENGTH: 12
```

RAW SEQUENCE LISTING   DATE: 05/07/2004
PATENT APPLICATION: US/10/651,584B   TIME: 13:43:38

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05072004\J651584B.raw

```
187 <212> TYPE: PRT
189 <213> ORGANISM: Unknown                    same
191 <220> FEATURE:
193 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

194      target cell
198 <400> SEQUENCE: 9
200 Pro Val Gly Lys Lys Arg Arg Pro Val Lys  Val Tyr
-> 201 1                      5                        10    same
205 <210> SEQ ID NO: 10
207 <211> LENGTH: 12
209 <212> TYPE: PRT
211 <213> ORGANISM: Unknown                    same
213 <220> FEATURE:
215 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

216      target cell
220 <400> SEQUENCE: 10
222 Lys Pro Val Gly Lys Lys Arg Arg Pro Val Lys Val
-> 223 1                      5                        10    same
228 <210> SEQ ID NO: 11
230 <211> LENGTH: 12
232 <212> TYPE: PRT
234 <213> ORGANISM: Unknown                    same
236 <220> FEATURE:
238 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

239      target cell
243 <400> SEQUENCE: 11
245 Gly Lys Pro Val Gly Lys Lys Arg Arg Pro Val Lys
-> 246 1                      5                        10    same
251 <210> SEQ ID NO: 12
253 <211> LENGTH: 13
255 <212> TYPE: PRT
257 <213> ORGANISM: Unknown                    same
259 <220> FEATURE:
261 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

262      target cell
266 <400> SEQUENCE: 12
268 Thr Phe Ala Gly Asn Ala Val Arg Arg Ser Val Gly Gln
-> 269 1                      5                        10    same
274 <210> SEQ ID NO: 13
276 <211> LENGTH: 6
278 <212> TYPE: PRT
280 <213> ORGANISM: Unknown                    same
282 <220> FEATURE:
284 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

285      target cell
289 <400> SEQUENCE: 13
291 Pro Leu Gly Leu Trp Ala
-> 292 1                      5            same
```

296 <210> SEQ ID NO: 14

RAW SEQUENCE LISTING   DATE: 05/07/2004
PATENT APPLICATION: US/10/651,584B   TIME: 13:43:38

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05072004\J651584B.raw

```
298 <211> LENGTH: 5
300 <212> TYPE: PRT
302 <213> ORGANISM: Unknown                  same
304 <220> FEATURE:
306 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

307       target cell
311 <400> SEQUENCE: 14
313 Pro Leu Phe Tyr Ser                       same
->  314 1                           5
318 <210> SEQ ID NO: 15
320 <211> LENGTH: 5
322 <212> TYPE: PRT
324 <213> ORGANISM: Unknown                   same
326 <220> FEATURE:
328 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

329       target cell
333 <400> SEQUENCE: 15
335 Pro Arg Thr Leu Thr                       same
->  336 1                           5
339 <210> SEQ ID NO: 16
341 <211> LENGTH: 5
343 <212> TYPE: PRT
345 <213> ORGANISM: Unknown                   same
347 <220> FEATURE:
349 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

350       target cell
354 <400> SEQUENCE: 16
356 Pro Leu Arg Leu Ser                       same
->  357 1                           5
360 <210> SEQ ID NO: 17
362 <211> LENGTH: 6
364 <212> TYPE: PRT
366 <213> ORGANISM: Unknown                   same
368 <220> FEATURE:
370 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

371       target cell
375 <400> SEQUENCE: 17
377 His Ser Ser Lys Leu Gln                   same
->  378 1                           5
381 <210> SEQ ID NO: 18
383 <211> LENGTH: 6
385 <212> TYPE: PRT
387 <213> ORGANISM: Unknown                   same
389 <220> FEATURE:
391 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

392       target cell
396 <400> SEQUENCE: 18
398 Ser Gln Tyr Ser Asp Thr
```

-> 399 1   5

RAW SEQUENCE LISTING   DATE: 05/07/2004
PATENT APPLICATION: US/10/651,584B   TIME: 13:43:38

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05072004\J651584B.raw

```
 401 <210> SEQ ID NO: 19
 403 <211> LENGTH: 7
 405 <212> TYPE: PRT
 407 <213> ORGANISM: Unknown                    same
 409 <220> FEATURE:
 411 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

 412       target cell
 416 <400> SEQUENCE: 19
 418 Gln Phe Tyr Ser Ser Asn Lys                same
-> 419 1                        5
 422 <210> SEQ ID NO: 20
 424 <211> LENGTH: 12
 426 <212> TYPE: PRT
 428 <213> ORGANISM: Unknown                    same
 430 <220> FEATURE:
 432 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

 433  target cell
 437 <400> SEQUENCE: 20
 439 Val Ser Gln Asn Tyr Pro Ile Val Glu Asn Phe Asn
-> 440 1                        5                          10
```
same
```
1073 <210> SEQ ID NO: 51
1075 <211> LENGTH: (12)   14 Shown below
1077 <212> TYPE: PRT
1079 <213> ORGANISM: Unknown
1081 <220> FEATURE:                              same
1083 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

1084       target cell
1088 <400> SEQUENCE: 51
1090 Asp Val Asp Glu Arg Asp Val Arg Gly Phe Ala Ser Phe Leu
-> 1091 1                     5        same             10
1220 <210> SEQ ID NO: 58
1222 <211> LENGTH: 31
1224 <212> TYPE: PRT
1226 <213> ORGANISM: Unknown                    same
1228 <220> FEATURE:
1230 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced by

1231       target cell
1235 <400> SEQUENCE: 58
1237 His Gly Pro Glu Gly Leu Arg Val Gly Phe Tyr Glu Ser Asp Val Met Gly Arg Gly His
-> 1238 1                    5                          10
-> 1239 15                        20
1241 Ala Arg Leu Val His Val Glu Glu Pro His Thr
-> 1242 (21)                      25                   30       same
1746 <210> SEQ ID NO: 83
1748 <211> LENGTH: 7
1750 <212> TYPE: PRT
1752 <213> ORGANISM: Unknown
1754 <220> FEATURE:
-> 1756 <221> NAME/KEY: Xaa
```

insert a hard return after 16th amino acid.

invalid. Per Sequence Rules, number the amino acids under every 5 amino acid.

Per 1.822 d Sequence Rules, a MAXIMUM of 16 amino acids per line

same

1758 <222> LOCATION: 7
1760 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced k

1761   target cell;
1762   Xaa = any amino acid
1764 <400> SEQUENCE: 83
-> 1766 Arg Pro Lys Pro Leu Ala Xaa
-> 1767 1   5   *same*
1770 <210> SEQ ID NO: 84
1772 <211> LENGTH: 8
1774 <212> TYPE: PRT
1776 <213> ORGANISM: Unknown
1778 <220> FEATURE:
-> 1780 <221> NAME/KEY: Xaa
1782 <222> LOCATION: 8   *same*
1784 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced k

1785   target cell;
1786   Xaa = any amino acid
1789 <400> SEQUENCE: 84
-> 1791 Ser Arg Pro Lys Pro Leu Ala Xaa
-> 1792 1   5   *same*
1795 <210> SEQ ID NO: 85
1797 <211> LENGTH: 9
1799 <212> TYPE: PRT
1801 <213> ORGANISM: Unknown
1803 <220> FEATURE:
-> 1805 <221> NAME/KEY: Xaa
1807 <222> LOCATION: 9   *same*
1809 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced k

1810   target cell;
1811   Xaa = any amino acid
1814 <400> SEQUENCE: 85
-> 1816 Ser Ser Arg Pro Lys Pro Leu Ala Xaa
-> 1817 1   5   *same*
1820 <210> SEQ ID NO: 86
1822 <211> LENGTH: 7
1824 <212> TYPE: PRT
1826 <213> ORGANISM: Unknown
1828 <220> FEATURE:
-> 1830 <221> NAME/KEY: Xaa
1832 <222> LOCATION: 2, 4, 7   *same*
1834 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced k

1835   target cell;
1836   Xaa = any amino acid
1839 <400> SEQUENCE: 86
-> 1841 Pro Xaa Gly Xaa His Ala Xaa
-> 1842 1   5   *same*
1846 <210> SEQ ID NO: 87
1848 <211> LENGTH: 7
1850 <212> TYPE: PRT

```
 1852 <213> ORGANISM: Unknown
 1854 <220> FEATURE:
-> 1856 <221> NAME/KEY: Xaa
 1858 <222> LOCATION: 5                        same
 1860 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced b

 1861       target cell;
 1862       Xaa = any amino acid
 1865 <400> SEQUENCE: 87
-> 1867 Pro Leu Gly Leu Xaa Ala Arg
-> 1868 1                      5     same
 2037 <210> SEQ ID NO: 96
 2039 <211> LENGTH: 19
 2041 <212> TYPE: PRT
 2043 <213> ORGANISM: Unknown
 2045 <220> FEATURE:
-> 2047 <221> NAME/KEY: Xaa
 2049 <222> LOCATION: 12                        same
 2051 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced b

 2052       target cell;
 2053       Xaa = any amino acid
 2056 <400> SEQUENCE: 96
-> 2058 Gly Glu Asn Gly Val Gln Lys Asp Val Ser Gln Xaa Ser Ile Tyr Ser Gln Thr Glu
-> 2059 1                   5                   10        same
-> 2060 15
 2063 <210> SEQ ID NO: 97
 2065 <211> LENGTH: 15
 2067 <212> TYPE: PRT
 2069 <213> ORGANISM: Unknown
 2071 <220> FEATURE:                             same
 2073 <223> OTHER INFORMATION: mammalian, peptide specifically cleavable by a reagent produced b

 2074       target cell
 2077 <400> SEQUENCE: 97
 2079 Gly Lys Gly Ile Ser Ser Gln Tyr Ser Asn Thr Glu Glu Arg Leu
-> 2080 1               5                   10      same
-> 2081 15
 2324 <210> SEQ ID NO: 110
 2326 <211> LENGTH: 46
 2328 <212> TYPE: PRT
 2330 <213> ORGANISM: Artificial Sequence
 2332 <220> FEATURE:                           same
 2334 <223> OTHER INFORMATION: Peptide dimer linked by polyglycine serine linker containing PSA
 2335       cleavage site specifically cleavable by PSA  16 amino acids per line
 2338 <400> SEQUENCE: 110
 2340 Gly Asp Ser Phe Thr His Thr Pro Pro Leu Asp Pro Gln Phe Tyr Ser Ser Asn Lys Gly
-> 2341 1                   5                   10           same
-> 2342 15                      20
 2344 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Asp Ser Phe Thr His
-> 2345 21                      25                  30           same
-> 2346 35                      40
```

Invalid. Number under every 5 amino acids.

```
  2348 Thr Pro Pro Leu Asp Pro
->2349 41                            45   same
  2352 <210> SEQ ID NO: 111
  2354 <211> LENGTH: 50
  2356 <212> TYPE: PRT
  2358 <213> ORGANISM: Artificial Sequence
  2360 <220> FEATURE:                          same
  2362 <223> OTHER INFORMATION: Peptide dimer linked by polyglycine serine linker containing PSA
  2363       cleavage site specifically cleavable by PSA
  2366 <400> SEQUENCE: 111
  2368 Gly Tyr Lys Asp Pro Pro Phe Cys Val Ala Pro Leu Asp Pro Gln Phe Tyr Ser Ser Asn
->2369 1                    5                          10             same
->2370 15                         20
  2372 Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Tyr Lys Asp
->2373 21  number under every 5   25                30
->2374 35                         40
  2376 Pro Pro Phe Cys Val Ala Pro Leu Asp Pro
->2377 41                         45             50
```

IMPORTANT: The types of errors shown exist throughout the Sequence Listing. Please check all sequences for similar errors.

FYI Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/07/2004
PATENT APPLICATION: **US/10/651,584B**   TIME: 13:43:39

Input Set : **A:\pto.da.txt**
Output Set: **N:\CRF4\05072004\J651584B.raw**

alid Line Length:
ϱ rules require that a line not exceed 72 characters in length. This includes spaces.

ɪ#:58; Line(s) 1238
ɪ#:96; Line(s) 2059
ɪ#:97; Line(s) 2080
ɪ#:110; Line(s) 2340,2341,2345
ɪ#:111; Line(s) 2368,2369,2372,2373

VERIFICATION SUMMARY   DATE: 05/07/2004
PATENT APPLICATION: US/10/651,584B   TIME: 13:43:39

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05072004\J651584B.raw

```
5 M:201 W: Mandatory field data missing, <130> FILE REFERENCE
7 M:270 C: Current Application Number differs, Replaced Current Application Number
32 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
52 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
72 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
92 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
113 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
135 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
157 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
179 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
201 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
223 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
246 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11
269 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
292 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:13
314 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14
336 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15
357 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16
378 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:17
399 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:18
419 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:19
440 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:20
461 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:21
482 M:332 E:. (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22
503 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23
524 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24
545 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:25
566 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:26
587 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:27
608 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
629 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:29
650 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:30
671 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:31
692 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:32
713 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:33
734 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:34
755 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:35
777 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:36
798 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:37
818 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:38
839 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39
860 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:40
881 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:41
902 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:42
923 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:43
944 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:44
965 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:45
986 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:46
```

VERIFICATION SUMMARY   DATE: 05/07/2004
PATENT APPLICATION: US/10/651,584B   TIME: 13:43:39

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05072004\J651584B.raw

```
1007 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:47
1028 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:48
1049 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:49
1070 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:50
1091 M:252 E: No. of Seq. differs, <211> LENGTH:Input:12 Found:14 SEQ:51
1756 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:83
1766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
1780 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:84
1791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
1805 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:85
1816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
1830 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:86
1841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
1856 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:87
1867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
1881 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:88
1892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
2047 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:96
2058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:0
```